

ES&H Management of Contractor Performed Facility Construction/Maintenance, Environmental Restoration/Decontamination and Decommissioning, and Related Drilling Operations

Los Alamos National Laboratory
Laboratory Implementation Requirement LIR 402-10-03.2
Issue Date 12/4/98 (Revision Date: July 3, 2001)

Mandatory Document

1.0 Introduction

Lessons Learned Note: [Click here](#) for Lessons Learned *that may apply* to the requirements contained in this LIR

1.1 Background

The requirements contained in this LIR shall be implemented for contractor performed facility construction/maintenance, for environmental restoration/decontamination and decommissioning (ER/D&D), and related drilling operations at Los Alamos National Laboratory (LANL). A safe and environmentally protected workplace is necessary to protect workers, safeguard government property and maintain the quality of the environment that surrounds the facility. The hazards associated with building, maintaining, repairing, and decommissioning technically complex facilities pose certain risks that must be controlled through effective implementation of ES&H programs. Environmental requirements have been considered and appropriately included in this document. This Laboratory Implementation Requirement (LIR) is effective upon issuance and complements LPR 402-00-00.0, "Worker Health and Safety, Appendix 4, Construction Safety."

1.2 In this document

Section	Description
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4.0	Implementation Requirements-Construction & Related Drilling Operations
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6.0	Precautions and Limitations
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See Attachment C (Guidance) for Recommended Major Implementation Criteria for Self Assessment

2.0 Scope/Applicability

The provisions of this LIR shall apply to LANL construction, facility maintenance, environmental restoration/decontamination, and decommissioning activities originating from:

- Facility construction and facility maintenance contracts (including drilling, but excludes Support Service Subcontractor work)
- Architectural/engineering contracts where physical work is to be performed on site
- Purchase orders and task order agreements (including drilling)
- Environmental Restoration and Decommissioning contracts (including drilling)

3.0 Definitions

3.1 Acronyms

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AHA^{3/4} Activity Hazard Analysis

CA^{3/4} Contract Administrator

CSAC^{3/4} Construction Safety Advisory Committee

CPM^{3/4} Construction Project Manager on decommissioning projects

DGL^{3/4} Decommissioning Group Leader

DPL^{3/4} Decommissioning Project Leader

ER/D&D^{3/4} Environmental Restoration/Decontamination & Decommissioning

ER/D&D ESH Team^{3/4} Industrial Hygiene and Safety Group ER/D&D support team

ES&H^{3/4} Environment, Safety and Health

ESH Division^{3/4} Environmental, Safety, and Health Division

ESH-5^{3/4} Industrial Hygiene and Safety Group

FAPL^{3/4} Focus Area Project Leader

Project Team Leader^{3/4} Project Team Leader for a construction project

FM^{3/4} Facility Manager

FMU^{3/4} Facility Management Unit

FTM^{3/4} Field Team Manager

HASP^{3/4} Health and Safety Plan

ISM^{3/4} Integrated Safety Management

LANL^{3/4} Los Alamos National Laboratory

LIR^{3/4} Laboratory Implementation Requirement

OIC^{3/4} Office of Integration and Coordination

OSHA^{3/4} Occupational Safety and Health Act

PM^{3/4} Project Manager for environmental restoration

PPE^{3/4} Personal Protective Equipment

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RFP^{3/4} Request for Proposal

SSHASP^{3/4} Site-Specific Health and Safety Plan

SSS^{3/4} Support Services Subcontractor

UC^{3/4} University of California, also known as the university

3.2 Definitions:

Contract^{3/4} a legally binding agreement issued under the prime contract and between the University and a third party that contains the essential terms and conditions under which goods or services will be furnished to the Laboratory.

Contract administrator (CA)^{3/4} the representative of the UC authorized to address contractual issues and execute and/or administer contracts on behalf of LANL.

Contractor^{3/4} a party entering into the contract with the Regents of the University of California (UC).

Decontamination & Decommissioning (D&D)^{3/4} decommissioning activities, including characterization, decontamination, dismantling, and disposition (disposal or salvage) of a LANL facility, equipment or structures.

Drilling operation^{3/4} operations, equipment, and appurtenances used in boring a hole from the surface of the ground to a point or points beneath the surface.

Environmental restoration (ER)^{3/4} environmental remedial actions conducted at LANL under the permit requirements of the State of New Mexico Hazardous and Solid Waste Amendment Module (HSWA) based on the Resources Conservation and Recovery Act (RCRA).

Facility construction and maintenance^{3/4} the work control LIR defines facility maintenance and the CPM LIR defines facility construction. The combination includes any combination of engineering, procurement, erection, installation, assembly, or fabrication to create a new facility; altering a facility; adding to or rehabilitating an existing facility. Alteration and repair (including dredging, excavating, and painting) of buildings, structures, or other real property is also covered. The manufacture, production, finishing, construction, alteration, repair, processing, or assembling of items categorized as personal property is not.

Greenfield Construction^{3/4} refers to construction contracts under which the construction subcontractor has exclusive custody of the entire work site, and the subcontractor's personnel and lower-tier subcontractors are the only personnel affected by the confined space(s).

Site hazard analysis^{3/4} related to the identification of site hazards and controls that must be communicated to the contractor via the ES&H screening.

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Subcontractor^{3/4} an individual or legal entity that has entered into an agreement with a contractor for the delivery of goods or services necessary for the contractor's performance of the contract.

4.0 Implementation Requirements – Contractor Performed Construction/Maintenance & Related Drilling Operations

4.1 ES&H Management Process for Construction/Maintenance and Related Drilling Operations

In accordance with Integrated Safety Management (ISM), ES&H planning is key to safe contractor performed facility construction and maintenance work and related drilling operations. Effective and efficient ES&H planning at the earliest stages of a job shall be employed in order to prevent accidents, injuries, disabilities, adverse programmatic actions, and economic hardships. The goal of safety planning must be to identify hazard prevention requirements prior to initiating activities. This shall be accomplished through the active participation and interface efforts of the project teams, facility managers (FMs), engineers/architects, contractors, planners, and ES&H personnel. The following ES&H management process shall be employed for contractor performed facility construction and maintenance work and related drilling operations.

Purchase Requisition Development	<ul style="list-style-type: none">• A division, group, program office, facility management unit (FMU) or project team shall request contractor work through the responsible procurement team. (Note: A purchase requisition may be used in place of a work request to achieve compliance with the Work Control LIR).• For maintenance completed per the work control LIR, the facility manager (FM) shall designate an individual to manage the work.• For construction projects completed in accordance with LIR 220-01-01, the assigned Project Team shall designate an individual who will manage the work.
Site Hazard Analysis (ES&H Hazard Screening)	<ul style="list-style-type: none">• The FM or Project Team designee shall develop the ES&H Hazard Screening and Control form(s) in accordance with the work control/hazard analysis LIRs.• The FM or Project Team designee shall solicit the services of the core or FMU or project ES&H representatives based on the work scope and hazard complexity (i.e., environmental issues, hazardous materials, etc.).

Solicitation	<ul style="list-style-type: none">• The contract administrator in conjunction with ES&H personnel and the FM or Project Team designee shall assemble contract clauses, ES&H evaluation criteria, ESH special provisions and the completed ES&H hazard screening into the solicitation package.• The contract administrators shall complete and issue the established solicitation package to prospective contractors.
Pre-Award Evaluation	<ul style="list-style-type: none">• The procurement team shall apply the established pre-award evaluation criteria that includes objective ES&H elements and shall evaluate bids or proposals to determine a responsible work provider.
ES&H Plan	<ul style="list-style-type: none">• The contractor shall submit a job specific ES&H plan (see attachments A and B for

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Evaluation	<p>construction and maintenance requirements, respectively), drilling ES&H plan and/or activity hazard analysis (AHA) as applicable for review and approval by the University.</p> <ul style="list-style-type: none">• The submitted plan or AHA evaluation shall be performed by ESH Division qualified persons (or delegated by ESH Division to persons designated by the FM or Project Team).• Upon review the qualified person shall provide written approval to the contract administrator. (Note: The University requires 10 working days to review and approve the ES&H submittals as this allows time for consultation.• Upon approval by the University, the contractor shall ensure that workers (including lower-tier subcontractors) are trained and comply with the requirements of the written ES&H programs while performing construction, maintenance, and drilling related activities.
Notice to Proceed	<ul style="list-style-type: none">• When required, the contract administrator shall initiate a preconstruction meeting with the contractor to establish expectations, discuss data deliverables and resolve issues that may arise in preparation for the commencement of construction, maintenance and drilling related activities. Note: Pre-construction meetings are otherwise only "optional".• The contract administrator shall issue a written notice to proceed after the receipt of approved ES&H plans, drilling ES&H plan and/or AHA and any other applicable requirements or items.
Performance assessment	<ul style="list-style-type: none">• The contract administrator shall periodically initiate a construction performance assessment in which contractor safety performance is documented in the procurement project files and archived for future basis of award. This performance assessment shall be in addition to the frequent and regular inspections that are performed during the course of construction.
Acceptance	<ul style="list-style-type: none">• In accordance with the facility work control LIR, an FMU representative shall accept facility maintenance work on behalf of the Laboratory. In accordance with the CPM LIR, the project team shall accept construction work on behalf of the Laboratory.

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4.2 Organizational Requirements for Contractor Performed Construction/Maintenance and Related Drilling Operations

Organization	Shall
Facility Owning Division	<ul style="list-style-type: none">• Have the responsibilities as set forth in LIR 230-03-01 Facility Management Work Control, and LIR 220-01-01, Construction Project Management for ensuring construction, facility maintenance and related drilling operations are safely completed.
Facility Manager (or other person designated by the Facility Owning Division Director)	<ul style="list-style-type: none">• Implement and maintain the work control process for the facility in accordance with LIR 230-03-01, Facility Management Work Control.• Send request to the Project Management Division for planning and execution support if work is >\$500K. This work will be done in accordance with LIR 220-01-01.• Designate an individual to manage the work.• Authorize personnel to perform the ES&H hazard screening.• Assign personnel qualified to perform the ES&H hazard control reviews.• Ensure that all personnel involved in the work control process, including the hazard analysis and control process are qualified to perform their assigned functions.• Ensure that work is properly scoped and managed in accordance with the requirements stated in LIR 230-01-02, Graded Approach for Facility Work.• Ensure that the work provider is given paper or electronic documentation of site hazards and controls and of any conditions that could increase the hazard of the task, for attachment to the task (AHA).• Designate personnel to perform oversight functions by ensuring that there is an agreed to and designated individual to oversee preparations and conduct of contractor work.• Ensure the work closed out.
Project Team Leader	<ul style="list-style-type: none">• Provide support to the technical user or facility owning organization by managing construction contractor safety.• Ensure that there is an agreed to and designated individual to oversee preparations and conduct of contractor work.
FM Designee or Project Team Designee	<ul style="list-style-type: none">• Ensure implementation of requirements as set forth in LIR 230-03-01, Facility Management Work Control, and LIR 220-01-01, Construction Project Management, including preparation of work requirements based on the identified hazards, management level, and facility requirements.

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Organization	Shall
Contract Administrator	<ul style="list-style-type: none"> • Administer and enforce the contractual ES&H requirements. • Document and communicate to the contractor the identity of the person who has the authority to provide direct oversight of the contractors ES&H performance. • Insert required ES&H clauses and requirements (as identified through the ESH Hazard Screening in accordance with LIR 402-10-01 Hazard Analysis and Control for Facility Work) into the contract specifications. • When identified, list specific safety standards and hazard prevention requirements in the contract specifications. • When identified, list special hazard prevention requirements that must be implemented for controlling potential hazardous activities such as penetrations, energized electrical work, confined space work, lead or other hazardous material work, and/or work involving respiratory protection. • Ensure contractors have been evaluated and listed as responsible bidders based on pre-award evaluation requirements. • Issue a written notice to proceed to contractors after the Laboratory has approved ES&H plans and/or activity hazard analysis, in addition to any other requirements. • Serve as the official point of contact for communicating with the contractor, to include stop work orders, and resolving findings resulting from audits and performance assessments. • Distribute data deliverables (including man-hour and accident investigation reports) from sub-contractors to designated Laboratory groups administering those data deliverables.
ESH-5	<ul style="list-style-type: none"> • Monitor the contractor performance for accident prevention and implementation of the Laboratory construction ES&H program requirements. • Assign a safety engineer and an industrial hygienist, to review the contractor's ES&H plan and/or AHA. • Ensure consultation between the safety engineer and the FMU's project ES&H team to determine the adequacy of the plan and AHA. • Ensure the consensus findings/agreements are communicated to the project team leader or facility manager, and the contract administrator. • Assign personnel to perform institutional safety inspections at regular and frequent intervals. • Ensure that cited deficiencies are assigned a risk assessment code based on standardized criteria. • Ensure that notices of deficiencies are distributed to the project team leader or facility manager, contract administrator, and a contractor representative. • Conduct a performance safety assessment of the construction facility maintenance operations to assess implementation of the contractors ES&H program. Ensure each analysis is documented in the contract administrator's files. • Track and trend safety deficiencies and communicate to the project leader or facility manager designee those deficiencies that remain open and require corrective actions. • Participate in the performance assurance process to evaluate the effectiveness of a contractor's ES&H program. • Provide technical expertise to the project leaders and facility managers in developing recommended solutions to ES&H problems.

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Organization	Shall
Construction/ Maintenance and Related Drilling Operations Contractor	<ul style="list-style-type: none"> • Execute construction or facility maintenance and meet all contract ES&H requirements, Department of Labor, Occupational Safety and Health Administration (OSHA) standards, building codes, and other federal and state regulations. • Furnish the contract administrator with the required data deliverables, including the monthly man-hour reports, accident investigations, safety meeting minutes, training records, and equipment certifications. (Documentation must be maintained at the site.) • Implement a program to prevent accidents, and protect employees and the environment. This shall include all workers, visitors, and the general public who may be exposed to hazards associated with work activities. • Ensure construction employees are trained in ES&H requirements for the contracted work and site-specific hazards. • Implement the hazard control measures (engineering, administrative and personal protective equipment (PPE)) identified in the project's AHA. • Ensure potential occupational hazards are mitigated or abated where the risk of harm to workers, the public, property, and the surrounding environment are identified. • Ensure effective ES&H performance of their subcontractors. • Submit a written site-specific ES&H plan (and/or an AHA) for approval by the Laboratory. • When required, submit a written drilling ES&H plan to the contract administrator for review and approval by the ESH Division qualified person. • Perform work under an approved AHA for small construction projects, if the following work criteria are met: (Otherwise, an ES&H plan/safety program shall be prepared.) <ol style="list-style-type: none"> 1. total cost does not exceed \$25K; 2. schedule of work does not exceed fourteen consecutive calendar days; 3. there is no requirements for use of hazardous materials; 4. there are no unresolved environmental issues as documented on the ESH Hazard screening, and no energized work will be performed. • For "greenfield" construction projects, contractor shall be responsible for maintaining the daily schedule and control of access to site.
Construction Safety Advisory Committee	<ul style="list-style-type: none"> • Report to the ESH Division Director shall be comprised of members from ESH-5, BUS-5, Project Management Division and representatives from an FMU and DOE-LAAO. • Oversee the development and implementation of a comprehensive construction ES&H program and continually foster its improvement. • Conduct an annual self-assessment of the construction ES&H program to include analysis of performance data, notification of areas requiring improvement, and identification of recommended corrections and recommended corrective actions. • Address specific construction safety issues presented by the ESH Division Director or by members of the committee.

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5.0 Implementation Requirements—Environmental Restoration/DD & Related Drilling Operations

5.1 Environmental Restoration/Decontamination & Decommissioning (ER/D&D) & Related Drilling Operations

Only qualified and pre-qualified contractors, under the direction of the Environmental Management Division Director or designee, are approved to perform Environmental Restoration/Decontamination & Decommissioning and related drilling operations projects. The work performed under these contracts must be performed in a safe, healthful, and environmentally sound manner that minimizes the threat and occurrence of occupational hazards to workers' health, the public, and the environment, and damage to government property. The following ES&H management process shall be employed for contractor performed Environmental Restoration/Decontamination & Decommissioning (ER/D&D) and Related Drilling Operations.

Develop Purchase Requisition	<ul style="list-style-type: none">The Environmental Management Division/ER project leader or the decommissioning group leader shall initiate the work request. ER/D&D managers shall establish the scope of work and develop a purchase requisition.
Establish Project Owner	<ul style="list-style-type: none">A facility tenant agreement, memorandum of understanding (MOU), work request, or other suitable form(s) of written agreements deemed appropriate by the FM and Project Leader, and which are compliant with applicable LPRs/LIRs shall be developed to establish interfaces, requirements, roles, responsibilities and authorities.
ESH-ID Process	<ul style="list-style-type: none">The project leader must electronically initiate an ESH-ID. A preliminary site hazard assessment must be developed with input from the FMU representatives (e.g., section of preliminary characterization report). The assessment must be incorporated into the contract specifications and the site-specific environmental, health and safety plan (SSHASP).
Develop and Distribute RFP Package	<ul style="list-style-type: none">As a team ER/D&D, cognizant procurement personnel and the ER/D&D ESH qualified person shall develop and release a statement of work to ER/D&D pre-qualified contractors. If the SSS (currently Johnson Control Northern New Mexico) is performing the ER/D&D work, an SSS work order must be initiated.
Proposal/Bid Evaluation & Contract Award	<ul style="list-style-type: none">The rfp package must be distributed and proposals to perform must be received and evaluated for technical content. The contract must be awarded based on the selection criteria. Before commencing work, the contractor must be given an authorized task order. For D&D projects a written notice to proceed shall be issued once the readiness requirements have been met. Drilling operations for ER/D&D work shall require the contractor to incorporate drilling ES&H requirements into the SSHASP.
Work/Worker Authorization	<ul style="list-style-type: none">All EM/ER and EM/D&D project/field work shall be authorized in accordance with the LIR 230-03-01, Facility Management Work Control and 402-10-01, Hazard Analysis and Control for Facility Work.
Project Oversight	<ul style="list-style-type: none">The project leader must perform project oversight with support from the ER/ESH team. ES&H performance must be monitored during the course of the project according to the ER/D&D health, safety and environmental oversight implementation plan. Note: Deficiencies in contractor ES&H performance are addressed through contract provisions.

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5.2 Organizational Requirements for ER/D&D and Related Drilling Operations

Organization	Shall
Environmental Management Division Director	<ul style="list-style-type: none"> Be accountable for maintaining safe environmental restoration/decontamination and decommissioning and related drilling activities associated with their Laboratory programs and processes. Select an organization with qualified personnel to manage the work safely. Assign a project manager to manage ER/D&D and drilling projects and promote ES&H.
Project Manager or Decommissioning Group Leader	<ul style="list-style-type: none"> Be responsible for maintaining a safe work site. Assign focus team leaders and deputy project leader responsibilities for daily oversight of ER/D&D and related drilling projects. Provide to the contract administrator specific ES&H requirements for incorporation into ER/D&D and drilling task orders.
Contract Administrator	<ul style="list-style-type: none"> Administer and enforce the ES&H requirements of the contract.
Focus Area Project Leader/ Decommission Project Leader	<ul style="list-style-type: none"> Report to the ER project manager/D&D group leader. The FAPL/DPL shall be the safety line manager responsible for ER/D&D field projects. Be responsible for ensuring those provisions of the health and safety plan (HASP), SSHASP and other applicable ES&H regulations are implemented. Serve as the final authority for resolving ES&H issues for ER/D&D work. Provide to the contract administrator specific ES&H requirements for incorporation into ER/D&D and drilling task orders. Ensure the relevant ES&H documents are developed and that the comments of the required reviewers have been incorporated. Ensure personnel performing ER/D&D work are qualified in accordance with established Laboratory ES&H requirements. Ensure that ER/D&D workers abide by all ES&H program, procedural, and planning requirements. Ensure the submittal of required project ES&H records to the LANL Records-Processing Facility (RPF) or to the decommissioning group office.
ER/D&D ESH Team	<ul style="list-style-type: none"> Provide direct and indirect ES&H support to ER/D&D. Develop and maintain a comprehensive HASP to ensure compliance with applicable federal and state occupational safety and health requirements. Provide to the contract administrator specific health, safety and environment requirements for incorporation into ER/D&D and drilling task orders. Review and approve the ER/D&D contractors ES&H Programs. Participate in the pre-qualification process for selecting contractors. Provide direct ES&H oversight of contractor activities.
Field Team Manager (FTM)/ Construction Project Manager (CPM)	<ul style="list-style-type: none"> Be either a UC employee or contractor, who reports to the FAPL/DPL and be the onsite manager of the field project crew. Oversee the work of the ER/D&D workers. Ensure all known tasks and associated hazards, protective controls and personnel responsible for ES&H have been identified. Ensure each required party has reviewed the SSHASP for accuracy and adequacy.

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Organization	Shall
Field Team Manager (FTM)/ Construction Project Manager (CPM) (Cont.)	<ul style="list-style-type: none">• Ensure review comments are resolved and that the SSHASP is signed before any field activities are begun.• Ensure provisions of the HASP, SSHASP, any supplements, and other ES&H requirements are current and implemented for ER/D&D operations.• Ensure only ER/D&D workers qualified in accordance with Laboratory ES&H requirements perform ER/D&D work, and that only authorized individuals are allowed access to ER/D&D site locations or ER/D&D operations where potential hazards exist.• Ensure ER/D&D workers attend ES&H briefings and daily ES&H tailgate meetings.• Ensure required permits have been obtained before beginning construction operations.• Notify Laboratory organizations when environmental issues arise (e.g. clean air act, clean water act, etc.) and when personnel exposures exceed occupational exposure levels.• Conduct required inspections.• In the event of an incident or emergency, function as site incident/emergency coordinator until relieved by a Laboratory Incident Commander, arrange for immediate notification of LANL emergency response personnel to take control of the scene and/or arrange for immediate notification of Laboratory authorities.• Ensure a log of project activities is maintained, required ES&H records are produced and maintained by the FTM/CPM, and that project records are complete and provided to the FAPL/DPL at the close of the project.
Contractor	<ul style="list-style-type: none">• Comply with the LANL ER/D&D HASP, any approved revisions to the HASP; relevant regulations and requirements; the contractor's ES&H programs; and all Laboratory approved site-specific plans and procedures stated in the contract provisions.• Perform ER/D&D and related drilling operations in accordance with the requirements stated in the SSHASP and as specified in the contract provisions.

6.0 Precautions and Limitations

Since this document does not address all conceivable situations, ESH-5 shall be contacted for special situations or exceptions to the requirements stated in this document in accordance with LIR 301-00-01.

Note: Work performed on LANL nuclear facilities may be subject to the requirements of the Price-Anderson Amendments Act.

All work performed for or within such facilities shall be accomplished with the knowledge and approval of the cognizant FM and within the requirements of the facility quality management and configuration management plans.

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7.0 References

7.1

Documents

29 CFR, 1910 Occupational Safety and Health Standards for General Industry
29 CFR 1926 Occupational Safety and Health Standards for Construction
10 CFR 835 Radiological Protection Plan
ER/D&D Health, Safety and Environmental Oversight Implementation Plan
American Petroleum Institute (API) Standards and Recommended Practices
State of NM Recommended Practices for Oil and Gas Well Drilling
ASTM Methods for Drilling Operations
Construction Project Management, LANL LIR 220-01-01
Facility Management Work Control, LANL LIR 230-03-01
Hazard Analysis and Control for Facility Work, LANL LIR 402-10-01

7.2

Document Ownership

The Office of Integration and Coordination (OIC) for this document shall be ESH-5.

7.3

Records

LANL project records must be maintained in accordance with 10 CFR 830.120 or DOE Order 414.1.

8.0 Attachments

Attachment A, Construction/Maintenance Project ES&H Plan

Attachment B, Recommended Major Implementation Criteria for Self-Assessment

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Attachment A Construction Project ES&H Plan

The contractor performing the work shall have a written ES&H plan commensurate in size, scope, and detail with the project and the risks involved. The plan must be submitted to the ESH-5 Operational Safety Office for coordination of review and approval prior to any work being initiated. The plan shall contain the following elements that apply to the work and the ES&H requirements listed in the contract provisions.

- Project Title Page and Table of Contents
- Policy Statement and Goals
- Contractor Safety Representative on Site
- Contractor Compliance
- Safety Inspection Program
- Equipment Certification Program
- Housekeeping and Illumination
- Qualification of Competent Persons
- Employee ES&H concern program
- Employee Training Program
- ES&H Violations/Disciplinary Program
- Stop Work Policy/Program
- Hazard Communication Program
- Personal Protective Equipment Program
- Radiation Safety Program
- Fitness for Duty Program (medical surveillance)
- Fire Protection Program
- Barricades and Signage
- Construction Area Demarcation and Control Requirements
- Scaffolding
- Fall Protection
- Electrical/Energized Electrical Work
- Lockout/Tagout Program
- Biological materials
- Compressed Gases
- Confined Spaces
- Compressed Air
- Excavations and Penetrations
- Air Monitoring
- Temporary Facilities
- Heating Devices
- Vehicle Safety
- Hoisting and Rigging
- Spraying and/or Painting
- Security/Fire and Medical Services
- Emergency Site Action and Response
- Safety Meetings
- Permits and Safe Work Practices
- Activity Hazard Analysis
- Reporting and Record-Keeping Requirements
- Specialty Programs (Asbestos, Lead Abatement, Respiratory Protection)

Attachment B
Facility Maintenance ES&H Project ES&H Plan

- The contractor performing the work shall have a written ES&H plan for work that involves one or more of the following elements.
 - Fall protection
 - Respiratory protection
 - Excavation in Type B or C soil
 - Scaffold erection
 - Asbestos, lead, beryllium, cadmium, or other heavy metal abatement
 - High consequence lifting or hoisting
 - Task-related radiation source(s)
 - Task-related activities w/ probable exposures greater than permissible exposure limits (OSHA) or threshold limit value (ACGIH)

The plan must include a general description of the contractor's ES&H program and a description of the contractor's implementation of regulatory program requirements related to the specific element. The plan must be submitted to the ESH-5 Operational Safety Office for coordination of review and approval prior to any work being initiated.

- Upon review of the "activity hazard analysis" (see LIR 402-10-01), a "qualified person" (see LIR 402-10-01) may request submittal of a written ES&H plan to ESH-5, covering serious levels of issues not in the above list, but for which OSHA requires a written program plan.

Guidance

Attachment C

Recommended Major Implementation Criteria for Self-Assessment

(Non-Mandatory)

LIR Title	LIR Number
ES&H Management of Contractor Performed Construction/Maintenance, Environmental Restoration/Decontamination and Decommissioning and Related Drilling Operations	402-10-03.2

The major implementation criteria listed below are provided to assist Laboratory organizations assess their implementation of this LIR. These criteria provide an objective basis for self-assessing implementation of the major requirements contained in the LIR. The LIR also states requirements in other areas, such as, scope, precautions, and responsibilities that, when applied, complement the successful implementation of these major requirements.

- 1. The most important criteria for assessing the implementation status of this LIR should be, if applicable: Have the requirements contained in the LIR been communicated to the individual(s) responsible for performing the work.**
- 2. In addition, the recommended major implementation criteria for self-assessment of this LIR are the following:**
 - Responsibility for project management is established with the FM planning team leader or the assigned project leader.
 - Work providers are selected using objective ES&H criteria.
 - Contractual provisions include applicable ES&H requirements.
 - Work providers are working to an approved ES&H Plan, AHA, SSHASP or drilling ES&H plan as applicable.
 - Work provider has a copy of the approved ES&H plan, AHA, SSHASP or drilling ES&H plan on site and workers have been briefed.
 - Workers on site are implementing the requirements of the ES&H approved submittals.
 - Work providers are performing regular and frequent inspections of the job site.
 - Laboratory personnel perform oversight functions including periodic performance assessments.